



## OMNI THRUSTER FOR MOTORBOATS AND MOTORYACHTS

### FIELD OF INVENTION

This invention relates to a device for boats, equipped with one or two inboard engines.

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### DESCRIPTION OF RELATED ART

All types of motor boats have some kind of difficulty when trying to turn around in close quarters and other congested areas, due to the fact that, unlike motor cars that travel on solid ground, boats move and travel on fluid water, where side movement, because of wind and/or current, is not an unusual interference in the operator's intent.

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Any additional assistance therefore, to make these maneuvers easier and faster, would always be welcome.

### 15 BRIEF SUMMARY OF THE INVENTION

The device that we will describe hereunder, will definitely eliminate the above mentioned disadvantage by placing additional lateral forces at the boat's bow and stern, to be used at the discretion of the boat's operator.

20 This device is a water jet bow and stern thruster, powered by a high velocity water jet pump, driven by the propulsion engine, through a magnetic clutch and operated from the boat's cock-pit by electric switches, as we will see later.

### DESCRIPTION OF PRIOR ART

25 There are in the market bow-thrusters, using electrically, or hydraulically, operated propellers, in a boats bow, which are bulky, requiring large areas to install.

### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1, is a general plan of a twin inboard engine boat, showing the High Velocity Water Jet Pump (HVWJP), a water jet pump similar to the ones used in the personal water crafts, for

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